APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/773,716	01/31/2001	Masayuki Chatani	375.07.01	7005

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EXAMINER
COLIN, CARL G

ART UNIT	PAPER NUMBER
2136	

DATE MAILED: 06/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on *17 April 2006*.

2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *88-109* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) *88-109* is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All b) ☐ Some * c) ☐ None of:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____.

      3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1.   A request for continued examination under 37 CFR 1.114, including the fee set forth in

37 CFR 1.17(e), was filed in this application after final rejection. Since this application is

eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e)

has been timely paid, the finality of the previous Office action has been withdrawn pursuant to

37 CFR 1.114. Applicant's submission filed on 4/17/2006 has been entered.

Response to Arguments

2.   In response to communications filed on 4/17/2006, applicant amends claims 88, 94, 100,

and 106. The following claims 88-109 are presented for examination.

2.1   Applicant's remarks, pages 11-12, filed on 4/17/2006, with respect to the rejection of

claims 88-109 have been fully considered but they are not persuasive. Applicant has amended

the independent claims to add an orderly processing of operation from (a) to (f). Applicant has

not explained how the claims as amended are patentably distinct over the prior art. Applicant's

arguments do not comply with 37 CFR 1.111(c) because they do not clearly point out the

patentable novelty which he or she thinks the claims present in view of the state of the art

disclosed by the references cited or the objections made. Further, they do not show how the

amendments avoid such references or objections. Therefore, Examiner's previous response in

the advisory action explaining how the prior art discloses the claimed invention is still valid. To

expedite the prosecution, a new ground of rejection is made. Upon further consideration, the

rejection of the claims as amended is set forth below.

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or

described as set forth in section 102 of this title, if the differences between the subject matter

sought to be patented and the prior ail are such that the subject matter as a whole would have

been obvious at the time the invention was made to a person having ordinary skill in the art to

which said subject matter pertains. Patentability shall not be negatived by the manner in which

the invention was made.

3.1   **Claims 88-109** are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent

6,470,085 to **Uranaka et al** in view of Non-Patent Literature Bruce **Schneier**; "Applied

Cryptography", 1996; John Wiley & Sons; Second edition; Pages 31-32, 39, 176-177, and 357-

360 and in view of US Patent 6,260,141 to **Park**.

3.2   **As per claims 88-89, 94, 96-101, 106, and 108-109, Uranaka et al** substantially

discloses a method for enabling access to a software product, communication to enable the

access to the software product being between a user computer and a server computer, the user

computer executing program instructions to enable the method (column 4, lines 44-65),

comprising: receiving user information from the user computer (column 3, lines 30-45);

Uranaka et al discloses a charged information or application package that can be

distributed to a client either off-line or on-line in which a client applies for service by requesting

software product from a server (see column 4, line 45 through column 5, line 8) that meets the

recitation of initiating access to the server computer the initiating causing creation of application

package that includes key generation as described below. The server records members'

information to generate software product to be distributed to specific subscribers (see column 5,

lines 13-20 and figure 1). **Uranaka et al** discloses communicating a server public key (Pks)

(that meets the recitation of user public key) from a key pair (Pks, Sks), generating at the server

using client's information that meets the recitation of user key pair being generating using

information from a specific user (see column 5, lines 58 through column 6, line 5; column 19,

lines 2-25; and column 15, lines 55-67). Although not specifically stated that the key pair (Pks,

Sks) is generated using user information, generating user key pair at the server using information

from a specific user is well known as disclosed in US Patents 6,195,432 and Korean Application

number KR 1998-033266 and JP9-244886 in Applicant's disclosure filed on 8/1/05 and US

Patent 5,490216, and it would have been obvious to one of ordinary skill in the art to make such

a modification in order to limit control of usage only to specific individual members as suggested

by Uranaka et al (see col. 14, lines 25-37). Column 14, lines 25-37 of Uranaka discloses

recording specific public key on the DVD and each public key is assigned to specific family

member, therefore there is suggestion that key pair can be generated using information from a

specific user. **Uranaka et al** also discloses generating user key pair (Pku,Sku) at the user

computer that meets the recitation of console key pair and sending the user public key (console

key) to the server to use for double encryption (column 7, lines 1-9; column 11, lines 13-20 and

column 22, lines 26-36) and suggests that data transmitting with the service request can be

encrypted (column 18, line 61 through column 19, line 2). As admitted by Applicant in the reply

dated 2/13/06 that keys must be created before they are sent, it is apparent to one of ordinary

skill in the art that the user public key (console key) has been generated at the user before it was

sent to the server. **Uranaka et al** further discloses the steps for playing the desired application

package comprising receiving a title ID from the user computer, the title ID identifying the

software product for which access is desired, the title ID being encrypted by the user public key

(column 22, lines 25-27 and column 18, lines 61 through column 19, line 2; and column 24, lines

30-40); retrieving a title private key based on the title ID received, the title private key being

double encrypted asymmetrically by the server computer using the console public key and the

user private key, use of the console public key created at the user computer defining a first layer

of encryption, use of the user private key created at the server computer defining a second layer

of encryption, the title private key and the title public key defining a title key pair (column 22,

lines 29-36); and forwarding the double encrypted title private key to the user computer so that

the user computer can use the title private key to decrypt the software product encrypted by using

the title public key (column 22, lines 36-50 and column 14, line 59 through column 15, line 21).

      Uranaka et al discloses the invention as a whole comprising of exchanging at least three

key pairs between the client and the server; suggests that data transmitting with the service

request can be encrypted (column 18, lines 61 through column 19, line 2); and discloses the

double encryption of a title private key Kv using a key generating by the user Pku and a key

generating by the server (R). **Uranaka et al** discloses double encryption and the key (Kv) sent

by the server is encrypted by two keys (one key from the server and one key from the user): a

server key R and encrypted by a public key Pku (column 15, lines 1-4). **Uranaka et al** even

discloses signing the double encryption key with a key pair (column 15, lines 55-67). The

decryption steps in the claims, for instance in claims 96-97 are disclosed in **Uranaka et al**

because they are just the reverse of the encryption steps cited above as known in the art of

cryptography. The difference between **Uranaka et al** and the claimed invention is that the key

(R) is a shared key.

It is well known that using key pair provides more security than a shared key. **Schneier**

also discloses multiple encryption and suggests making sure that multiple keys are different and

independent to benefit from multiple encryption. Therefore, it would have been obvious to one

of ordinary skill in the art at the time the invention was made to modify the method of **Uranaka**

et al to change the symmetric random key to an asymmetric key in order to provide more

security as taught by **Schneier**. This modification would have been obvious to one skilled in the

art to use the random key as a key pair instead of using it as a shared key because asymmetric

cryptography is more secure than symmetric cryptography so it will provide more security

because key may also be compromised during transmission and using different key that is known

only to one party may benefit in security as suggested by **Schneier**.

Park in analogous art discloses a software license control system wherein the user

performs user registration and the registration server generates key pair at the server using user

information key (see column 3, lines 40-46 and column 4, lines 20-46) and further discloses

double encryption by encrypting license information using a server secret key and a user public

key (see column 4, lines 20-46). **Park** also discloses in one embodiment a method of using

asymmetrically double encryption by a server defining a first layer of encryption by using a user

public key created at the user and use of a software secret key created at the server defining a

second layer of encryption (column 4, lines 46-60). Therefore, it would have been obvious to

one of ordinary skill in the art at the time the invention was made to modify the method of

Uranaka et al to create user key pairs at the server using user information and to use

asymmetrically double encryption in transferring sensitive information. The motivation to do so

is provided by **Park** who teaches unauthorized use of a software product, wherein the control of

the software product can be user specific or user computer hardware specific as desired when

same/different users want to use the software from different computers or from the same

computer. Also as known in public-key encryption, each party (servers and users) must possess

one of the key pairs to perform encryption/decryption (see column 4, lines 20-32 and column 3,

lines 22-35).

      As per claims 90, 95, 102, and **107, Uranaka et al** discloses receiving purchase

information from the user computer (column 12, lines 5-25); creating an electronic token based

on the purchase information; and forwarding to the user computer, the electronic token that

permits use of the decrypted software product in a restricted manner (column 12, lines 40-67).

      As per claims 91 and **103, Uranaka et al** discloses wherein the initiating of the access to

the server computer is carried out by forwarding user information specific to the user computer

to the server computer (column 5, lines 10-42; column 7, lines 57-67; and column 8, lines 34-41).

As per claims 92 and **104, Uranaka et al** discloses different embodiments or alternatives of creating key pairs at the server based on user information (column 8, lines 34-42 and column 15, lines 21-67).

As per claims 93 and **105, Uranaka et al** discloses wherein the console key pair is created by the user computer by using hardware identification means (column 18, lines 41-53; column 22, lines 26-36).

Conclusion

4.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carl Colin whose telephone number is 571-272-3862. The examiner can normally be reached on Monday through Thursday, 8:00-6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CC

Carl Colin

Patent Examiner

June 22, 2006

AYAZ SHEIKH

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100